

Application No.: 09/719,674  
Attorney Docket No. 051480-5039  
Page 2 of 11

**IN THE CLAIMS:**

1. (currently amended) Solenoid valve ~~with~~ comprising a winding (12) surrounding a pole core (21) and held in a housing (2), and a spring-stressed flat armature (38), which in its rest position forms an axial air gap with the pole core (21) and which is fastened to a plunger (36) that passes through the pole core (21), the plunger (36) includes at an ~~and on the end section of which that is at a distance from the flat armature a~~ controllable connection can be controlled between a pressure and a drain connection (P, T), characterized in that ~~and~~ the pole core (21) is pressure-compensated on both of its faces.
2. (currently amended) Solenoid valve ~~according to claim 1, characterized in that~~ comprising a winding (12) surrounding a pole core (21) and held in a housing (2), and a spring-stressed flat armature (38), which in its rest position forms an axial air gap with the pole core (21) and which is fastened to a plunger (36) that passes through the pole core (21), the plunger (36) includes at an end section a distance from the flat armature a controllable connection between a pressure and a drain connection (P, T), the pole core (21) is pressure-compensated on both of its faces, and both faces of the pole core (21) are connected to said drain connection (T).
3. (currently amended) Solenoid valve according to claim 1, characterized by a pole disk (48) that surrounds the pole core (21) at a distance and that, with the flat armature (38) delimits a partial area of the air gap lying radially on the outside, the pole disk (48) being arranged between the winding (12) and the flat armature (38).
4. (previously amended) Solenoid valve according to claim 3, characterized in that the pole disk (48) is connected to the housing (2).
5. (previously amended) Solenoid valve according to claim 1, characterized by a valve body (28) that is prestressed against a valve seat (34) by the plunger (36).
6. (previously amended) Solenoid valve according to claim 1, characterized in that the two faces of the pole core (21) are connected to each other by a compensating channel.

Application No.: 09/719,674  
Attorney Docket No. 051480-5039  
Page 3 of 11

7. (previously amended) Solenoid valve according to claim 6, characterized in that the compensating channel is formed between the plunger (36) and an axial hole of the pole core (21).
8. (cancel without prejudice or disclaimer)
9. (previously amended) Solenoid valve according to claim 5, characterized in that the valve seat (34) is formed of an insert piece (26) that is fastened in housing (2).
10. (previously amended) Solenoid valve according to claim 1, characterized by a connecting hole (22) that is formed between a holding chamber (20) for the pole core (21) and a chamber (30) of the housing on the drain side, through which the plunger (36) passes with radial play.
11. (previously amended) Solenoid valve according to claim 1, characterized in that the armature chamber (56) is closed by a cover (42) through which coil pins (16) pass, whereby a gap between coil pin (16) and cover passage is sealed by means of a sealing ring.
12. (previously amended) Solenoid valve according to claim 11, characterized in that the coil pins (16) are formed as connector pins.
13. (previously amended) Solenoid valve according to claim 11, characterized in that housing (2) is screwed connected with cover (42).
14. (previously amended) Solenoid valve according to claim 1, characterized in that housing (2) is screwed connected with cover (42).
15. (previously presented) Solenoid valve according to claim 2, characterized by a pole disk (48) that surrounds the pole core (21) at a distance and that, with the flat armature (38) delimits a partial area of the air gap lying radially on the outside.
16. (previously presented) Solenoid valve according to claim 15, characterized in that the pole disk (48) is connected to the housing (2).

Application No.: 09/719,674  
Attorney Docket No. 051480-5039  
Page 4 of 11

C1  
17. (new) Solenoid valve comprising a winding (12) surrounding a pole core (21) and held in a housing (2), and a spring-stressed flat armature (38), which in its rest position forms an axial air gap with the pole core (21) and which is fastened to a plunger (36) that passes through the pole core (21), the plunger (36) including at an end section that is distal from the flat armature a controllable connection between a pressure and a drain connection (P, T), the flat armature (38) including flattened areas (58), and there being a defined gap between the flattened areas (58) and the pole core (21) such that tilting with respect to the pole core (21) is avoided during movement of the flat armature (38) and the plunger (36).

---